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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/594,626	09/28/2006	Ryoichi Okuyama	KPO-006 5241			
32628 KANESAKA	7590 04/11/200 BERNER AND PARTN	EXAM	EXAMINER			
1700 DIAGONAL RD KALAFUT, STEPHEN: SUITE 310			STEPHEN J			
			ART UNIT	PAPER NUMBER		
			1795			
			MAIL DATE	DELIVERY MODE		
			04/11/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)				
10/594,626	OKUYAMA ET AL.				
Examiner	Art Unit				
Stephen J. Kalafut	1795				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed of the SEV /6 MONTHS from the molition date of this communication.

- If NO - Failu Any	priorid for roply is specified above, the maximum statutory perior will apply and will expire SIX (6) MONITES from the mailing date of this communication, to to roply with the set or extended partied for reply will by statute, cause the application to become ABANDONEC [DS U.S.C. § 133), reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any of patent term adjustment. See 37 CFR 1.70(b).
Status	
1)	Responsive to communication(s) filed on
2a)□	This action is FINAL. 2b)⊠ This action is non-final.
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposit	on of Claims
4)⊠	Claim(s) <u>47-77</u> is/are pending in the application.
	4a) Of the above claim(s) is/are withdrawn from consideration.
5)	Claim(s) is/are allowed.
6)⊠	Claim(s) 47-77 is/are rejected.
7)	Claim(s) is/are objected to.
8)□	Claim(s) are subject to restriction and/or election requirement.
Applicati	on Poporo

The specification	is	objected	to	by the	Examiner.
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10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No.

Copies of the certified copies of the priority documents have been received in this National Stage

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) X Information Disclosure Statement(s) (PTO/SE/08)

Paper No(s)/Mail Date 28 Sept 2006.

4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

5) Notice of Informal Patent Application

6) Other:

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The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornun, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPO 644 (CCPA 1962).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 47-77 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 48, 50-77 and 79 of copending Application No. 10/594,711 in view of Epp et al. (US 6,063,515).

Claim 48 of the '711 application recites the same hydrogen supply system that is recited in present claim 47, as part of a submarine boat that also includes a fuel cell to which the hydrogen is supplied, and a propelling device powered by electricity from the fuel cell. Claims 50-77 and 79 of the '711 application recite the same respective details as present claims 48-75 and 77. The present claims differ by reciting the submarine boat, including the fuel cell and propelling device. Epp et al. disclose a fuel cell to be used on a submarine, to provide power for propulsion and other loads (column 1, line 67 through column 2, line 2), and which receives hydrogen made from a fuel processing system (column 4, line 60 through column 4, line 14).

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Because the hydrogen supply system of the '711 application would be able to perform the same function as the fuel processing system of Epps et al., it would be obvious to use the hydrogen supply system of the '711 application in the submarine of Epps et al., to supply hydrogen to the fuel cell therein. Regarding claim 76, the avoidance of a cooling device would be an obvious expedient to the ordinary artisan in view of the hydrogen supply system being operable at 100 °C or less (present claim 63, claim 65 of the '711 application), which is below the operating temperatures of most fuel cells.

This is a provisional obviousness-type double patenting rejection.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Clausi *et al.* (US 3,795,544), Hespel (US 3,902,919) and Schmitman (US 6,610,193) each disclose submarines that include onboard fuel cells.

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Kalafut whose telephone number is 571-272-1286. The examiner can normally be reached on Mon-Fri 8:00 am-4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen J. Kalafut/ Primary Examiner, Art Unit 1795